

Minimum Charge:

For 1/2 x 1/2 inch meter	2.50
For 1 inch meter	3.50
For 1 1/2 inch meter	5.00
For 2 inch meter	7.50
For 2 1/2 inch meter	10.00

The Minimum Charge will entitle the customer to the quantity of water which that minimum charge will purchase at the Quantity Rates.

Schedule No. 2

FLAT RATE SERVICE

APPLICABILITY

Applicable to all flat rate water service

TERRITORY

Loam Acres Ranch and vicinity, located four miles west of Redgees Kern County.

RATES

For a single family residential unit, or trailer unit, including premises for each additional single family residential unit, or trailer unit on the same premises and served from the same service connection. Per Service Connection Per Month \$3.90

SPECIAL CONDITIONS

1. The above flat rates apply to a service connection not larger than one inch in diameter. If the utility so elects, a meter shall be installed and service provided under contract No. 1, Metered Service.

D 73264, A 49432 (Oct. 27, 1967). Anderson Cartage and 18 other warehousemen petitioned to decrease rates in central valley, Sacramento to Fresno, inclusive.

D 73265, A 49769 (Oct. 27, 1967). Donald and Raymond Bue granted relief from the bonding requirements of General Order No. 84-F on C.O.P. shipments transported for Witches Lumber & Building Supplies.

D 73266, C 5441 (Pet. Mod. 128) (Oct. 27, 1967). The petitioners of MRT No. 1-B requested relief from classification of zones from and to which rates apply.

D 73267, C 7979 (Oct. 27, 1967). Petition of So. Pac. Co. for rehearing of D 65345 denied.

D 73268, A 49734 (Oct. 27, 1967). P.G. & E. Co. authorized to issue and set \$89,000,000 of First Mortgage Bonds.

D 73269, A 49529 (Oct. 27, 1967). Transfer authorized of Shasta Retreat Water System in Densmore from a partnership to one of the partners.

D 73270, C 8613 (Oct. 27, 1967). In Desert Hot Springs, California, Chamber of Commerce v. John C. Hastie (Twenty-nine Palms Stages), relief denied.

D 73271, C 5437 (Pet. Mod. 149) (Oct. 27, 1967). Zone rates established in MRT No. 17 for transportation of air-cooled slag from plant of Fontana Stage.

D 73272, C 5436 (Pet. Mod. 52) (Oct. 27, 1967). Acme Transportation, Inc., authorized to publish a rate less than minimum for another year for transportation of fuel oil.

D 73273, A 49627 (Oct. 27, 1967). City of Los Angeles and Lines, Inc., authorized to change routes in City of Los Angeles to provide service from new terminal.

D 73274, C 5437 (Pet. Mod. 45, 65, 80, 90) (Oct. 27, 1967). Petitioners requested Supplement No. 23 to be incorporated in MRT No. 7.

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D 73275, C 5437 (Pet. Mod. 45, 65, 80, 90) (Oct. 27, 1967). Effective date fixed for Supplement No. 5 to be incorporated in MRT No. 7.

D 73276, A 49735 (Nov. 9, 1967). Paloo Springs Water Co. authorized to transfer assets to Desert Water Agency.

D 73277, A 47246 (Nov. 7, 1967). Commission Resolution No. 13887 amended by deleting Sub. No. 59, Union Terminal Warehouse Permit 19-42229 and Permit 19-57 from page 23 of Schedule "A" thereof; Union Terminal Warehouses (including highway common carrier and highway contract carrier permits restricted to transportation of property for its warehouse customers where its warehouse locations are the point of destination or point of origin).

DECISION NO. 73278, APPLICATION NO. 49051 (November 7, 1967)

P.G. & E. Co. granted certificate to construct and operate a nuclear generating unit of approximately 1,000,000 kilowatts at Diablo Canyon, San Luis Obispo County, subject to granting of certificate from Atomic Energy Commission.

(B) COMMISSION - JURISDICTIONAL LIMITATIONS - FEDERAL BOARDS - ATOMIC ENERGY COMMISSION. Radiation hazards are subject to the exclusive jurisdiction of the United States Atomic Energy Commission. (Northern California Association for the Protection of the Public Health and Safety Inc. v. Public Utility Commission, Pacific Gas and Electric Company, 41 C 2d 126 [1961], Section 274 of Atomic Energy Act of 1954.)

(C) CERTIFICATES - CONVENIENCE AND NECESSITY - IN GENERAL - ATOMIC COMMISSION. In authorizing the installation of a nuclear power plant the Commission recognizes its responsibility to insure that the impact on the environment will be held to a minimum and that necessities will receive adequate consideration.

(Appearances are listed in Appendix A)

INTERIM OPINION

Applicant's Request

Pacific Gas and Electric Company requests a certificate of public convenience and necessity under Section 1003 of the Public Utilities Code to construct, operate and maintain a nuclear fueled power plant at a site in Diablo Canyon, San Luis Obispo County, together with transmission lines and related facilities.

Public Hearing

After due notice public hearing was held before Commissioner Gafco and Examiner Patterson at San Luis Obispo on February 16, 17 and 28, March 1, 2, 29, 30 and 31, at San Francisco on April 12, 13 and 14 and again at San Luis Obispo on April 26, 27, and 28, May 10, 11, 12, 24, 25 and 26, 1967.

The matter was submitted subject to the receipt of concurrent opening briefs and concurrent reply briefs which have been received and it is now ready for decision.

Applicant presented evidence in support of the application through 17 witnesses and 41 exhibits. Four other witnesses testified in favor of the proposal. 18 additional supporting exhibits were received, and supporting statements were made by approximately 60 individuals most of whom represented governmental, civic or other organizations.

Those in opposition to a part or the whole of the project presented 32 exhibits, the testimony of 12 witnesses and statements by three individuals.

The Commission staff did not present any evidence but it took an active part through extensive cross-examination of witnesses.

Proposed Power Plant

The power plant, as proposed, would be located upon a 685 to 765-acre site near the mouth of Diablo Canyon in San Luis Obispo County. The site is on the coast approximately 7 miles northwest of Avila Beach and 12 miles southwest of the City of San Luis Obispo. The 585 acres south of and adjoining Diablo Creek has been leased from the private landowner for a term of 99 years with an option to renew for an additional 99 years. The 100 to 200 acres required on the north side of the creek is in the process of being acquired from another private owner.

The power production facilities will be situated on a sloping terrace set back several hundred feet from the ocean and 70 to 100 feet above sea level. The San Luis Mountains rise sharply in back of the plant site and it is planned that the 500 kv switchyard will be located in Diablo Canyon more than one-half mile from the ocean and at an elevation higher than the generating unit. It appears the switchyard will not be visible from ground level at the site of the power production facilities. The nuclear power unit for which authorization is sought under this application is expected to have a net electrical output of 1,000,000 kilowatts. The unit will include a nuclear fueled steam generating system, a turbine-generator and the necessary reactor and turbine auxiliaries together with related steam plant equipment, including high voltage step-up transformers and switching equipment.

The reactor system will be a pressurized-water, closed cycle, forced circulation type, fueled with slightly enriched uranium dioxide enclosed in zirconium alloy tubes. Water circulated through the reactor will act as a coolant and moderator. Control will be effected through neutron absorbing control rods and a soluble chemical neutron absorber. Steam from the steam generator will be supplied to the turbine at approximately 506° Fahrenheit and 710 pounds per square inch pressure. Ocean water will be circulated in the condenser cooling system at a rate of approximately 820,000 gallons per minute. Looking ahead to expected future expansion the intake structure is being designed to handle sufficient cooling water for three units, and the record shows that applicant contemplates the eventual installation of a total of six units.

¹ By Decision No. 71441, dated October 18, 1966, in Application No. 48896, P.C. and E. was authorized to guarantee loans by other parties to San Luis Obispo Bay Properties, Inc., an affiliate of the property owner.

The switchyard area as shown in Exhibit No. 5 is sized to accommodate switchgear for six units but the initial installation of equipment will be only that necessary for one or two units.

The reactor containment structure will consist of a reinforced concrete vertical cylinder with a flat base and a hemispherical dome. A welded steel liner attached to the inside face of the concrete shell will assure a high degree of leak tightness.

Load Growth and Resources

The peak load growth in applicant's gross service area has been 8.54% compounded annually over the last eight years. Applicant has conservatively estimated future growth at rates which average 6.52% compounded annually through the year 1972 when it is contemplated the Diablo Canyon nuclear unit will be required. Estimates have also been carried forward from that year to 1980 at an annual compounded rate of 6.95%. The historical peak loads and estimates as set forth in Exhibit No. 3 may be summarized as follows:

Year	Actual	Average year	Estimated	Adverse year	Annual growth MW
1958	4,154				645
1959	4,768				549
1960	5,320				388
1961	5,998				132
1962	5,830				470
1963	6,300				469
1964	6,769				588
1965	7,557				637
1966	7,994				365
1967		8,360		8,440	623
1968		8,980		9,060	560
1969		9,540		9,620	710
1970		10,250		10,320	650
1971		10,900		10,980	780
1972		11,680		11,760	820
1973		12,500		12,580	880
1974		13,380		13,460	930
1975		14,310		14,390	990
1976		15,300		15,380	1,060
1977		16,360		16,440	1,180
1978		17,490		17,570	1,210
1979		18,700		18,780	1,290
1980		19,990		20,070	

To help meet the growth in power needs as illustrated by the above figures applicant has planned the following additions to its generating capacity:

Mass Landing Unit No. 6	735 MW in Summer 1967
Mass Landing Unit 7	735 MW in Spring 1968
Geysers Unit 4	26.7 MW in Winter 1968
Geysers Unit 5	50 MW in Winter 1971
Bellevue Hydro Plant	117 MW in Winter 1969
Nuclear Unit—Diablo	1060 MW in Spring 1972

The action taken herein is for the issuance of a certificate of public convenience and necessity only and is not to be considered as indicative of amounts to be included in future proceedings for the purpose of determining just and reasonable rates.

It is concluded that the application should be granted to the extent set forth in the order which follows.

INTERIM ORDER

IT IS ORDERED that:

1. A certificate of public convenience and necessity is granted to Pacific Gas and Electric Company to construct, operate and maintain a nuclear fueled power generating unit of approximately 1,060,000 kilowatts capacity together with appurtenant facilities and transmission lines generally as described by applicant in this proceeding, but subject to the condition that the certificate is interim in form and may be made final by further order of the Commission on the establishment by evidence in the record that final authority has been obtained from the Atomic Energy Commission to construct and operate the nuclear energy plant.

2. Prior to construction applicant shall submit an artist's rendition of the project based on the architect's design.

3. Applicant shall file with this Commission a detailed statement of the capital costs of the project including transmission lines and other appurtenances within one year following the date on which the unit is placed in commercial operation.

4. The authorization herein granted shall expire if not exercised within five years from the date hereof.

The effective date of this order shall be twenty days after the date hereof.

Dated at San Francisco, California, this 7th day of November, 1967

PERK F. MITCHELL

President

WILLIAM M. BENNETT

A. W. GAIOT

WILLIAM SYMONS, JR.

FRED P. MORRISSEY

Commissioners

APPENDIX A

List of Appearances

For Applicant: F. T. Seabes, by John C. Morrissey, Philip A. Crane, Jr., and Ross Workman.

Protestants: Andrew Rebecky, Arch E. Madala, Henry C. Murphy, Thomas E. Adams, by Andrew Rebecky and Thomas B. Adams, for O. C. Field and Ray Hiale Field; Lyders & McKastle, by Paul L. McKastle, for Scenic Shoreline Preservation Conference, and Fred Gister, for self.

Interested Parties: Chickering & Gregory, Sherman Chickering, Donald J. Richardson, Leslie P. Jay and C. Hayden Ames, by C. Hayden Ames and Leslie P. Jay, and Stanley Seiffel, for San Diego Gas and Electric Company; Stanley J. McElroy, for Labor and General Construction Local 1222, Santa Maria; Gene A. Blase, for State Office of Atomic Energy Development and Radiation Protection, Lytle Carpenter, for County of San Luis Obispo, Irving J. Hagan, for self; M. A. Walters, for International Brotherhood of Electrical Workers; William L. Kuroki, for San Luis Obispo County Parks Bureau and California Farm Bureau Federation; Harold Johnson and Mayer Weil W. Whitekel, for City of San Luis Obispo; Multer, Woolbert & McWhinney, by Wickson R. Woolbert, for Nationwide Investment Company, San Luis Obispo; Henry L. Hudson, for San Luis Obispo County Development Association; W. H. Ahrendt, Sr., for Pacific Coast Development and Recreation Association; Hal Strenbe and Crossman & Weaver, by Edward S. Grossman, for Robert B. Marve and San Luis Obispo Day Properties, Inc.; Donald Campbell, for San Luis Obispo County Farm Bureau; James W. Powell, District Attorney, for Scott F. Hubbard, Deputy District Attorney, San County of San Luis Obispo; Ian I. McMillan, for self; Paul A. McCloskey, Jr., for Committee for Green Footfalls; Brian R. Van Gemst, for The Resources Agency, The Transportation Agency, The Department of Public Health, by Co-ordinator of Atomic Energy Development & Radiation Protection, all of the State of California; Paul McKee, for California Wildlife Federation; Frank M. King, for San Leandro Chamber of Commerce; and David C. Hansen, for Hayward Chamber of Commerce.

For Commission Staff: Vincent F. MacKazak, Counsel, and Melvin B. Meek.

WILLIAM M. BENNETT, CONCURRING OPINION

While I concur—reluctantly—its today's order, I am compelled to point out that little has been learned from the series of mistakes which led to the rejection of a nuclear plant at Bedega Bay. The record makes it abundantly clear that the initiative here as to the selection of nuclear sites—precious coast line—is clearly in the hands of the utility. This comes about because of its power of condemnation of property given to it by the people and secondly but more importantly because the State of California has no plan or comprehensive program for the preservation of beach land as against nuclear plants. It is plain to me that the recreational needs of man are just as important as the energy requirements, indeed perhaps more so. And yet aware of the fact that nuclear plants are going to dot the California landscape in increasing numbers, the public utilities are left to themselves to pick and choose desirable beach properties for utility construction purposes. What is called for is attention by the Legislature—if no one else—to the concept of zoning an entire coast line. Nuclear plants of all public utilities should be considered with the possibility of placing all of them whether separately owned or not in a common setting which would insure a minimum of interference with recreational areas. And this is a function which should be undertaken by this Commission in a broad investigation to determine how many nuclear plants are to be constructed for all reasonable time and where located. Absent a broad development program for location of these plants, the precious dwindling beach area is going to go as has much of the other natural beauty of California.

INTERIM OPINION

Applicant's Request:

Pacific Gas and Electric Company requests a certificate of public convenience and necessity under Section 10XX of the Public Utilities Code to construct, operate and maintain a nuclear fueled power plant at a site in Diablo Canyon, San Luis Obispo County, together with transmission lines and related facilities.

Proposed Power Plant

Pages 640-641

The power plant, as proposed, would be located upon a 685-785 acre site near the mouth of Diablo Canyon in San Luis Obispo County. The site is on the coast approximately 7 miles northwest of Avila Beach and 12 miles southwest of the City of San Luis Obispo. The 585 acres south of land adjoining Diablo Creek has been leased from the private landowner for a term of 99 years with an option to renew for an additional 99 years.¹ The 100 to 200 acres required on the north side of the creek is in the process of being acquired from another private owner.

The power production facilities will be situated on a sloping terrace set back several hundred feet from the ocean and 70 to 100 feet above sea level. The San Luis Mountains rise sharply in back of the plant site and it is planned that the 500 kv switchyard will be located in Diablo Canyon more than one-half mile from the ocean at an elevation higher than the generating unit. It appears the switchyard will not be visible from ground level at the site of the power production facilities.

The nuclear power unit for which authorization is sought under this application is expected to have a net electrical output of 1, 060, 000 kilowatts. The unit will include a nuclear fueled steam generating system; a turbine-generator and the necessary reactor and turbine auxiliaries together with related steam plant equipment, including high voltage step-up transformers and switching equipment.

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The reactor containment structure will consist of a reinforced concrete vertical cylinder with a flat base and hemispherical dome. A welded steel liner attached to the inside face of the concrete shell will assure a high degree of leak tightness.

¹ By Decision No. 71441, dated October 18, 1966 in Application No. 43806 P.G. and E. was authorized in guarantee loans by other parties to San Luis Bay Properties, Inc. an affiliate of the property owner.

IT IS ORDERED that:

1. A certificate of public convenience and necessity is granted to Pacific Gas and Electric Company to construct, operate and maintain a nuclear fueled power generating unit of approximately 1,060,000 kilowatts capacity together with appurtenant facilities and transmission lines generally described by applicant in this proceeding, but subject to the condition that the certificate is interim in form and may be made final by further order of the Commission on the establishment by evidence in the record that final authority has been obtained from the Atomic Energy Commission to construct and operate the nuclear energy plant.
2. Prior to construction applicant shall submit an artist's rendition of the project based on the architect's design.
3. Applicant shall file with this Commission a detailed statement of the capital costs of the project including transmission lines and other appurtenances within one year following the date on which the units is placed in commercial operation.
4. The authorization herein granted shall expire if not exercised within five years from the date hereof.

The effective date of this order shall be twenty days after the date hereof.

Dated at San Francisco, California, the 7th day of November, 1967.